



## RAW SEQUENCE LISTING

DATE: 10/12/2004

PATENT APPLICATION: US/09/868,813A

TIME: 12:06:52

Input Set : A:\14730.txt

Output Set: N:\CRF4\10122004\I868813A.raw

3 <110> APPLICANT: Willson, Tracy A.  
 4 Simpson, Richard J.  
 5 Farley, Alison M.  
 6 Nicholson, Sandra E.  
 7 Zhang, Jian-Guo  
 8 Baca, Manuel  
 9 Nicola, Nicas A.  
 10 Hilton, Douglas J.  
 11 Alexander, Warren S.  
 12 Metcalf, Donald  
 14 <120> TITLE OF INVENTION: SOCS-BOX CONTAINING PEPTIDES  
 16 <130> FILE REFERENCE: Davies Collison Cave  
 18 <140> CURRENT APPLICATION NUMBER: 09/868,813A  
 19 <141> CURRENT FILING DATE: 2002-02-26  
 21 <160> NUMBER OF SEQ ID NOS: 5  
 23 <170> SOFTWARE: PatentIn Ver. 2.1  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 8  
 27 <212> TYPE: PRT  
 28 <213> ORGANISM: Artificial Sequence  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: Description of Artificial Sequence: FLAG epitope tag  
 33 <400> SEQUENCE: 1  
 34 Asp Tyr Lys Asp Asp Asp Asp Lys  
 35 1 5  
 38 <210> SEQ ID NO: 2  
 39 <211> LENGTH: 10  
 40 <212> TYPE: PRT  
 41 <213> ORGANISM: Artificial Sequence  
 43 <220> FEATURE:  
 44 <223> OTHER INFORMATION: Description of Artificial Sequence: myc epitope tag  
 46 <400> SEQUENCE: 2  
 47 Asp Gln Lys Leu Ile Ser Glu Glu Asp Leu  
 48 1 5 10  
 51 <210> SEQ ID NO: 3  
 52 <211> LENGTH: 14  
 53 <212> TYPE: PRT  
 54 <213> ORGANISM: Artificial Sequence  
 56 <220> FEATURE:  
 57 <223> OTHER INFORMATION: Description of Artificial Sequence: linker sequence  
 59 <400> SEQUENCE: 3  
 60 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Val Asp  
 61 1 5 10

ENTERED

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64 <210> SEQ ID NO: 4  
 65 <211> LENGTH: 10  
 66 <212> TYPE: PRT  
 67 <213> ORGANISM: Artificial Sequence  
 69 <220> FEATURE:  
 70 <223> OTHER INFORMATION: Description of Artificial Sequence: consensus sequence  
 71 N-terminus of SOCS boxes  
 73 <220> FEATURE:  
 74 <221> NAME/KEY: misc\_feature  
 75 <222> LOCATION: (1)  
 76 <223> OTHER INFORMATION: Xaa is Thr, Ser or Pro  
 78 <220> FEATURE:  
 79 <221> NAME/KEY: misc\_feature  
 80 <222> LOCATION: (3)..(5)  
 81 <223> OTHER INFORMATION: Xaa is any amino acid  
 83 <220> FEATURE:  
 84 <221> NAME/KEY: misc\_feature  
 85 <222> LOCATION: (6)  
 86 <223> OTHER INFORMATION: Xaa is Cys or Ser  
 88 <220> FEATURE:  
 89 <221> NAME/KEY: misc\_feature  
 90 <222> LOCATION: (7)..(9)  
 91 <223> OTHER INFORMATION: Xaa is any amino acid  
 93 <220> FEATURE:  
 94 <221> NAME/KEY: misc\_feature  
 95 <222> LOCATION: (10)  
 96 <223> OTHER INFORMATION: Xaa is Leu, Ile or Val  
 98 <400> SEQUENCE: 4

W--> 99 Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 100 5 10  
 102 <210> SEQ ID NO: 5  
 103 <211> LENGTH: 128  
 104 <212> TYPE: PRT  
 105 <213> ORGANISM: Mus musculus  
 107 <220> FEATURE:  
 108 <221> NAME/KEY: UNSURE  
 109 <222> LOCATION: (1)  
 110 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro  
 112 <220> FEATURE:  
 113 <221> NAME/KEY: UNSURE  
 114 <222> LOCATION: (2)  
 115 <223> OTHER INFORMATION: Xaa is any amino acid residue  
 117 <220> FEATURE:  
 118 <221> NAME/KEY: UNSURE  
 119 <222> LOCATION: (3)  
 120 <223> OTHER INFORMATION: Xaa is Pro, Thr or Ser  
 122 <220> FEATURE:  
 123 <221> NAME/KEY: UNSURE  
 124 <222> LOCATION: (4)

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125 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro  
127 <220> FEATURE:  
128 <221> NAME/KEY: UNSURE  
129 <222> LOCATION: (5)  
130 <223> OTHER INFORMATION: Xaa is any amino acid  
132 <220> FEATURE:  
133 <221> NAME/KEY: UNSURE  
134 <222> LOCATION: (6)  
135 <223> OTHER INFORMATION: Xaa is any amino acid  
137 <220> FEATURE:  
138 <221> NAME/KEY: UNSURE  
139 <222> LOCATION: (7)  
140 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala, Phe, Tyr or Trp  
142 <220> FEATURE:  
143 <221> NAME/KEY: UNSURE  
144 <222> LOCATION: (8)  
145 <223> OTHER INFORMATION: Xaa is Cys, Thr or Ser  
147 <220> FEATURE:  
148 <221> NAME/KEY: UNSURE  
149 <222> LOCATION: (9)  
150 <223> OTHER INFORMATION: Xaa is Arg, Lys or His  
152 <220> FEATURE:  
153 <221> NAME/KEY: UNSURE  
154 <222> LOCATION: (10)  
155 <223> OTHER INFORMATION: Xaa is any amino acid  
157 <220> FEATURE:  
158 <221> NAME/KEY: UNSURE  
159 <222> LOCATION: (11)  
160 <223> OTHER INFORMATION: Xaa is any amino acid  
162 <220> FEATURE:  
163 <221> NAME/KEY: UNSURE  
164 <222> LOCATION: (12)  
165 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro  
167 <220> FEATURE:  
168 <221> NAME/KEY: UNSURE  
169 <222> LOCATION: (13)  
170 <223> OTHER INFORMATION: Xaa is any amino acid  
172 <220> FEATURE:  
173 <221> NAME/KEY: UNSURE  
174 <222> LOCATION: (14)  
175 <223> OTHER INFORMATION: Xaa is any amino acid  
177 <220> FEATURE:  
178 <221> NAME/KEY: UNSURE  
179 <222> LOCATION: (15)  
180 <223> OTHER INFORMATION: Xaa is any amino acid  
182 <220> FEATURE:  
183 <221> NAME/KEY: UNSURE  
184 <222> LOCATION: (16)  
185 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala, Pro, Gly, Cys, Thr

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186 or Ser  
188 <220> FEATURE:  
189 <221> NAME/KEY: UNSURE  
190 <222> LOCATION: (17)..(66)  
191 <223> OTHER INFORMATION: Xaa can be any amino acid. Position 17-66  
192 can be 1-50 amino acids.  
194 <220> FEATURE:  
195 <221> NAME/KEY: UNSURE  
196 <222> LOCATION: (67)  
197 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro  
199 <220> FEATURE:  
200 <221> NAME/KEY: UNSURE  
201 <222> LOCATION: (68)  
202 <223> OTHER INFORMATION: Xaa is any amino acid  
204 <220> FEATURE:  
205 <221> NAME/KEY: UNSURE  
206 <222> LOCATION: (69)  
207 <223> OTHER INFORMATION: Xaa is any amino acid  
209 <220> FEATURE:  
210 <221> NAME/KEY: UNSURE  
211 <222> LOCATION: (70)  
212 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro  
214 <220> FEATURE:  
215 <221> NAME/KEY: UNSURE  
216 <222> LOCATION: (72)  
217 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala, Pro or Gly  
219 <220> FEATURE:  
220 <221> NAME/KEY: UNSURE  
221 <222> LOCATION: (73)  
222 <223> OTHER INFORMATION: Xaa is Pro or Asn  
224 <220> FEATURE:  
225 <221> NAME/KEY: UNSURE  
226 <222> LOCATION: (74)..(123)  
227 <223> OTHER INFORMATION: Xaa can be any amino acid. Position 74-123  
228 can be 1-50 amino acids.  
230 <220> FEATURE:  
231 <221> NAME/KEY: UNSURE  
232 <222> LOCATION: (124)  
233 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro  
235 <220> FEATURE:  
236 <221> NAME/KEY: UNSURE  
237 <222> LOCATION: (125)..(126)  
238 <223> OTHER INFORMATION: Xaa is any amino acid  
240 <220> FEATURE:  
241 <221> NAME/KEY: UNSURE  
242 <222> LOCATION: (127)  
243 <223> OTHER INFORMATION: Xaa is Tyr or Phe  
245 <220> FEATURE:  
246 <221> NAME/KEY: UNSURE

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247 &lt;222&gt; LOCATION: (128)

248 &lt;223&gt; OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro

251 &lt;400&gt; SEQUENCE: 5

W--> 253 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 254 1 5 10 15  
 256 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 257 20 25 30  
 259 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 260 35 40 45  
 262 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 263 50 55 60  
 265 Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 266 65 70 75 80  
 268 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 269 85 90 95  
 271 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 272 100 105 110  
 274 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 275 115 120 125

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/868,813A

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 1,3,4,5,6,7,8,9,10 ✓  
Seq#:5; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22 ✓  
Seq#:5; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41 ✓  
Seq#:5; Xaa Pos. 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60 ✓  
Seq#:5; Xaa Pos. 61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80 ✓  
Seq#:5; Xaa Pos. 81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99 ✓  
Seq#:5; Xaa Pos. 100,101,102,103,104,105,106,107,108,109,110,111,112,113 ✓  
Seq#:5; Xaa Pos. 114,115,116,117,118,119,120,121,122,123,124,125,126,127 ✓  
Seq#:5; Xaa Pos. 128

**VERIFICATION SUMMARY**

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Input Set : A:\14730.txt

Output Set: N:\CRF4\10122004\I868813A.raw

L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
M:341 Repeated in SeqNo=5